Wiring Diagrams

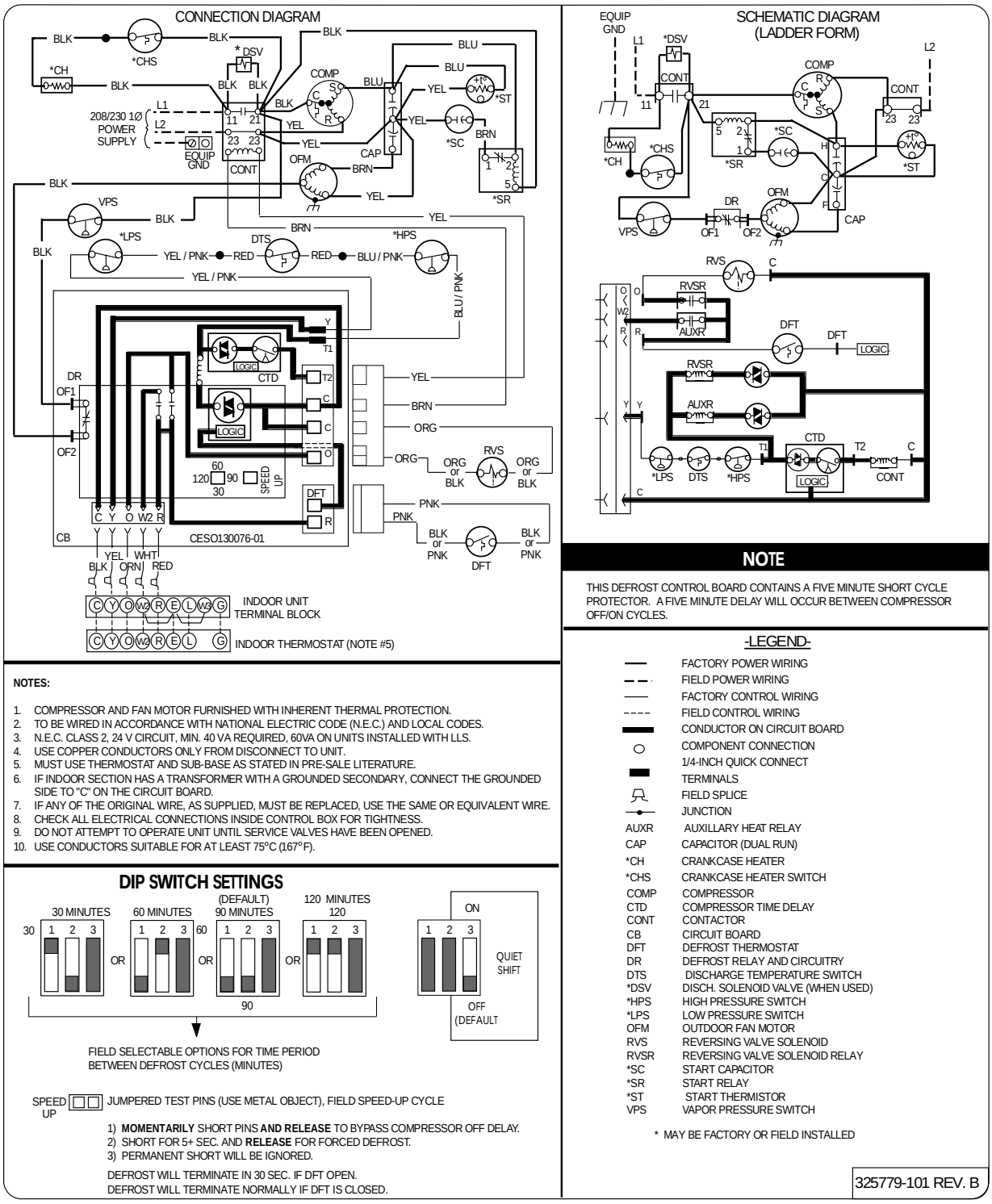
CONNECTION DIAGRAM
SCHEMATIC DIAGRAM
(LADDER FORM)
CESO130076-01
INDOOR UNIT
TERMINAL BLOCK
INDOOR THERMOSTAT (NOTE #5)
NOTE
THIS DEFROST CONTROL BOARD CONTAINS A FIVE MINUTE SHORT CYCLE PROTECTOR. A FIVE MINUTE DELAY WILL OCCUR BETWEEN COMPRESSOR OFF/ON CYCLES.
-LEGEND-
FACTORY POWER WIRING
FIELD POWER WIRING
FACTORY CONTROL WIRING
FIELD CONTROL WIRING
CONDUCTOR ON CIRCUIT BOARD
COMPONENT CONNECTION
1/4-INCH QUICK CONNECT
TERMINALS
FIELD SPLICE
JUNCTION
AUXR AUXILLARY HEAT RELAY
CAP CAPACITOR (DUAL RUN)
*CH CRANKCASE HEATER
*CHS CRANKCASE HEATER SWITCH
COMP COMPRESSOR
CTD COMPRESSOR TIME DELAY
CONT CONTACTOR
CB CIRCUIT BOARD
DFT DEFROST THERMOSTAT
DR DEFROST RELAY AND CIRCUITRY
DTS DISCHARGE TEMPERATURE SWITCH
*DSV DISCH. SOLENOID VALVE (WHEN USED)
*HPS HIGH PRESSURE SWITCH
*LPS LOW PRESSURE SWITCH
OFM OUTDOOR FAN MOTOR
RVS REVERSING VALVE SOLENOID
RVSR REVERSING VALVE SOLENOID RELAY
*SC START CAPACITOR
*SR START RELAY
*ST START THERMISTOR
VPS VAPOR PRESSURE SWITCH
* MAY BE FACTORY OR FIELD INSTALLED
NOTES:
1. COMPRESSOR AND FAN MOTOR FURNISHED WITH INHERENT THERMAL PROTECTION.
2. TO BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) AND LOCAL CODES.
3. N.E.C. CLASS 2, 24 V CIRCUIT, MIN. 40 VA REQUIRED, 60VA ON UNITS INSTALLED WITH LLS.
4. USE COPPER CONDUCTORS ONLY FROM DISCONNECT TO UNIT.
5. MUST USE THERMOSTAT AND SUB-BASE AS STATED IN PRE-SALE LITERATURE.
6. IF INDOOR SECTION HAS A TRANSFORMER WITH A GROUNDED SECONDARY, CONNECT THE GROUNDED SIDE TO "C" ON THE CIRCUIT BOARD.
7. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT WIRE.
8. CHECK ALL ELECTRICAL CONNECTIONS INSIDE CONTROL BOX FOR TIGHTNESS.
9. DO NOT ATTEMPT TO OPERATE UNIT UNTIL SERVICE VALVES HAVE BEEN OPENED.
10. USE CONDUCTORS SUITABLE FOR AT LEAST 75°C (167°F).
DIP SWITCH SETTINGS
30 MINUTES
60 MINUTES
(DEFAULT)
90 MINUTES
120 MINUTES
120
QUIET SHIFT
ON
OFF
(DEFAULT)
FIELD SELECTABLE OPTIONS FOR TIME PERIOD
BETWEEN DEFROST CYCLES (MINUTES)
SPEED UP JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE
1) MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
2) SHORT FOR 5+ SEC. AND RELEASE FOR FORCED DEFROST.
3) PERMANENT SHORT WILL BE IGNORED.
DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.
325779-101 REV. B

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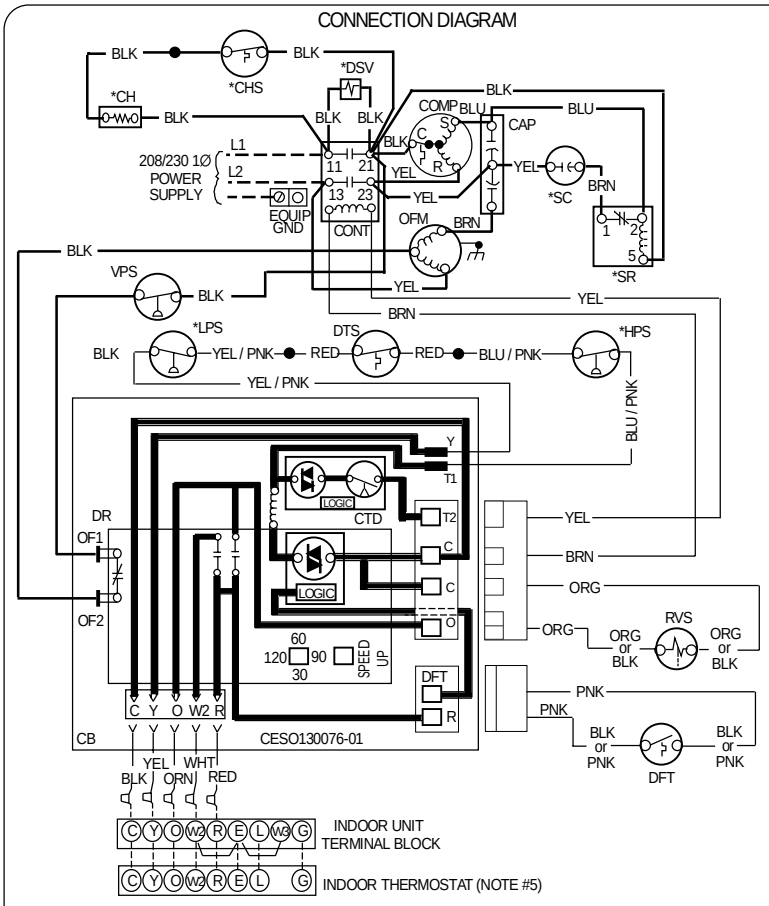
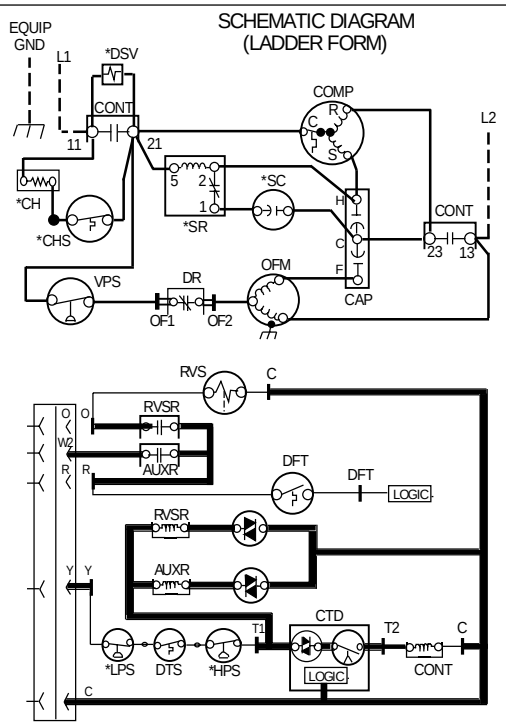
Fig. 1—38EYG024-048; 208-230v; 1 Phase; 60 Hertz





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NOTES:

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5. MUST USE THERMOSTAT AND SUB-BASE AS STATED IN PRE-SALE LITERATURE.
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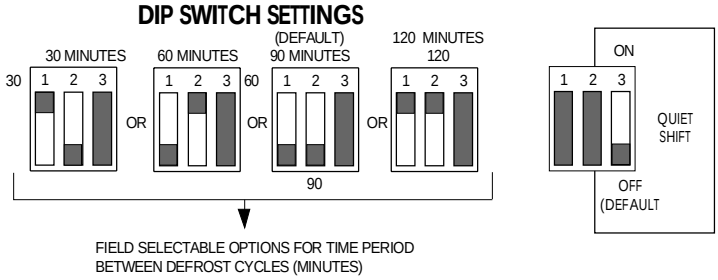
7. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT WIRE.
8. CHECK ALL ELECTRICAL CONNECTIONS INSIDE CONTROL BOX FOR TIGHTNESS.
9. DO NOT ATTEMPT TO OPERATE UNIT UNTIL SERVICE VALVES HAVE BEEN OPENED.
10. USE CONDUCTORS SUITABLE FOR AT LEAST 75°C (167° F).

DIP SWITCH SETTINGS



SPEED UP ☐☐ JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE

1) **MOMENTARILY** SHORT PINS **AND RELEASE** TO BYPASS COMPRESSOR OFF DELAY.
2) SHORT FOR 5+ SEC. AND **RELEASE** FOR FORCED DEFROST.
3) PERMANENT SHORT WILL BE IGNORED.

DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

-LEGEND-

——	FACTORY POWER WIRING
– –	FIELD POWER WIRING
——	FACTORY CONTROL WIRING
----	FIELD CONTROL WIRING
▬▬	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
	1/4-INCH QUICK CONNECT
▬	TERMINALS
	FIELD SPLICE
—●—	JUNCTION
AUXR	AUXILLARY HEAT RELAY
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CTD	COMPRESSOR TIME DELAY
CONT	CONTACTOR
CB	CIRCUIT BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY AND CIRCUITRY
DTS	DISCHARGE TEMPERATURE SWITCH
*DSV	DISCH. SOLENOID VALVE (WHEN USED)
*HPS	HIGH PRESSURE SWITCH
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
RVS	REVERSING VALVE SOLENOID
RVSR	REVERSING VALVE SOLENOID RELAY
*SC	START CAPACITOR
*SR	START RELAY
VPS	VAPOR PRESSURE SWITCH

* MAY BE FACTORY OR FIELD INSTALLED

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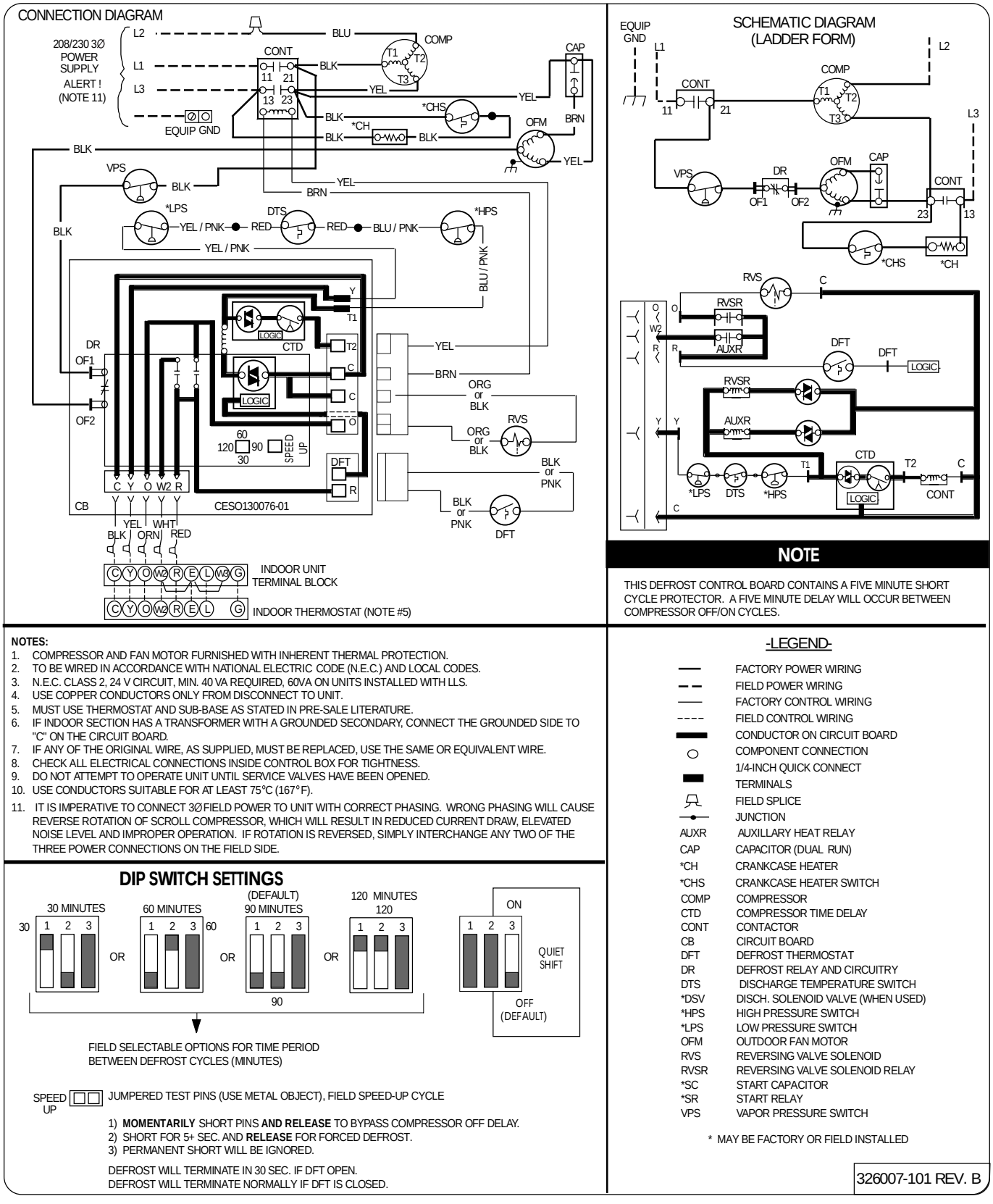
Fig. 2—38EYG060; 208-230v; 1 Phase; 60 Hertz



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3. N.E.C. CLASS 2, 24 V CIRCUIT, MIN. 40 VA REQUIRED, 60VA ON UNITS INSTALLED WITH LLS.
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5. MUST USE THERMOSTAT AND SUB-BASE AS STATED IN PRE-SALE LITERATURE.
6. IF INDOOR SECTION HAS A TRANSFORMER WITH A GROUNDED SECONDARY, CONNECT THE GROUNDED SIDE TO "C" ON THE CIRCUIT BOARD.
7. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT WIRE.
8. CHECK ALL ELECTRICAL CONNECTIONS INSIDE CONTROL BOX FOR TIGHTNESS.
9. DO NOT ATTEMPT TO OPERATE UNIT UNTIL SERVICE VALVES HAVE BEEN OPENED.
10. USE CONDUCTORS SUITABLE FOR AT LEAST 75°C (167°F).
11. IT IS IMPERATIVE TO CONNECT 3Ø FIELD POWER TO UNIT WITH CORRECT PHASING. WRONG PHASING WILL CAUSE REVERSE ROTATION OF SCROLL COMPRESSOR, WHICH WILL RESULT IN REDUCED CURRENT DRAW, ELEVATED NOISE LEVEL AND IMPROPER OPERATION. IF ROTATION IS REVERSED, SIMPLY INTERCHANGE ANY TWO OF THE THREE POWER CONNECTIONS ON THE FIELD SIDE.

DIP SWITCH SETTINGS

FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP — JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE

1) **MOMENTARILY** SHORT PINS **AND RELEASE** TO BYPASS COMPRESSOR OFF DELAY.
2) SHORT FOR 5+ SEC. AND **RELEASE** FOR FORCED DEFROST.
3) PERMANENT SHORT WILL BE IGNORED.

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-LEGEND-

——	FACTORY POWER WIRING
– –	FIELD POWER WIRING
——	FACTORY CONTROL WIRING
----	FIELD CONTROL WIRING
▬	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
	1/4-INCH QUICK CONNECT
▬	TERMINALS
	FIELD SPLICE
—•—	JUNCTION
AUXR	AUXILLARY HEAT RELAY
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
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CONT	CONTACTOR
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DFT	DEFROST THERMOSTAT
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OFM	OUTDOOR FAN MOTOR
RVS	REVERSING VALVE SOLENOID
RVSR	REVERSING VALVE SOLENOID RELAY
*SC	START CAPACITOR
*SR	START RELAY
VPS	VAPOR PRESSURE SWITCH

* MAY BE FACTORY OR FIELD INSTALLED

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Fig. 3—38EYG036, 048, 060; 208/230v; 3 Phase; 60 Hertz

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Book 1 4 Tab 5a 5a PC 101 Printed in U.S.A. Catalog No. 38EYG-1W Pg 4 9-05 Replaces: New